

Food and Drug Administration 10903 New Hampshire Avenue Document Control Center - WO66-G609 Silver Spring, MD 20993-0002

June 2, 2015

Implant Microdent c/o Ms. Rhonda Alexander, M.S., M.P.A. Registrar Corp 144 Research Drive Hampton, VA 23666

Re: K141188

Trade/Device Name: Microdent Genius Implant System

Regulation Number: 21 CFR 872.3640

Regulation Name: Endosseous Dental Implant

Regulatory Class: II

Product Code: DZE, NHA

Dated: May 1, 2015 Received: May 4, 2015

#### Dear Ms. Alexander:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical devicerelated adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

for Erin I. Keith, M.S.

Director

Division of Anesthesiology, General Hospital, Respiratory, Infection Control and Dental Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

# DEPARTMENT OF HEALTH AND HUMAN SERVICES

Form Approved: OMB No. 0910-0120

Food and Drug Administration	Expiration Date: January 31, 2017
Indications for Use	See PRA Statement below.
510(k) Number <i>(if known)</i> K141188	
Device Name Microdent Genius Implant System	
Indications for Use (Describe) Microdent Genius Implant System is indicated for surgical placement two-stage surgical procedures and cemented, screw retained restoration System is intended for immediate placement and function on single too primary stability is achieved, with appropriate occlusal loading, in order Small diameter implants are indicated only for replacement of central and stated only for replacement on the stated only for replacement of central and stated only for replacement of central and stated only for replacement of central and stated only for replacement on the stated only for replacement on the stat	ns or overdentures. Microdent Genius Implant oth and/or multiple tooth applications when good er to restore chewing function.
Type of Use (Select one or both, as applicable)	
Prescription Use (Part 21 CFR 801 Subpart D)	Over-The-Counter Use (21 CFR 801 Subpart C)

#### CONTINUE ON A SEPARATE PAGE IF NEEDED.

This section applies only to requirements of the Paperwork Reduction Act of 1995.

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FORM FDA 3881 (8/14)

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PSC Publishing Services (301) 443-6740

Andrew I. Steen -S 2015.05.27 09:20:56 -04'00'

# 510(k) SUMMARY (21 CFR 807.92)

This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirement of 21 CFR 807.92

The assigned 510(k) number is:	K141188	

Premarket Notification [510(k)] Summary

### A. General Information

Submitter's Name: Implant Microdent Systems
Address: C/ Carles Buigas, 1 – Can Magre

Sta Eulalia de Ronçana

Barcelona, Barcelona E-08187

Spain

Telephone: +34-902-402-420
Fax Number: +34-94-844-7893
Contact Person: Jordi Clapes Donadeu

Date Prepared: March 1, 2013

#### B. Device

Trade Name: Microdent Genius Implant System
Classification Name: Endosseous Dental Implants

Product Code: DZE and NHA

Class:

Regulation Number: 21 CFR 872.3640

## C. Identification of Legally Marketed Predicate Device

ANKYLOS C/X Dental Implant – K083805 (primary predicate)

ANKYLOS Balance Base abutment C/ – K041509 (reference predicate)

XiVE Dental Implant System (Ball and Socket Attachment) – K021318 (reference predicate)

## D. Description of the Device

Microdent Genius Implant System is comprised of dental implants and prosthetic components. Microdent Genius dental implants are internal connection endosseous implants machined titanium that can be used with deferred load or immediate load techniques. If sufficient bone depth is available the implant can be inserted sub-crestal. Microdent Genius Implant is recommended to place 2mm sub-crestal position.

The implant has a connection formed by six grooves extending radially around the axis of the implant to provide a precise position of the abutment.

Microdent Genius Implants are provided with blasted surface.

The implants are supplied sterile and the abutments are provided non-sterile.

• Implants are also offered in various diameters and length.

Ø platform	Ø core	Length	Reference
		8	GN3508
		10	GN3510
3.50	3.50	12	GN3512
3.50	3.50	14	GN3514
		16	GN3516
		18	GN3518
		8	GN4008
		10	GN4010
4.00	4.00	12	GN4012
4.00	4.00	14	GN4014
		16	GN4016
		18	GN4018
		8	GN4508
		10	GN4010
4.50	4.50	12	GN4512
4.50	4.50	14	GN4514
		16	GN4516
		18	GN4518
		8	GN5008
		10	GN5010
5.00	5.00	12	GN5012
		14	GN5014
		16	GN5016

• Contained various Microdent Genius abutments made of Ti-6AL 4-V-ELI alloy.

The abutments Conical, Angled and Mini Capitel are used for cemented and screw-retained restorations.

# Conical abutment with flap:

Microdent Genius hex.		Ø 4.50
GIVI CCI 430111	Conical with flap abutment	Height 1 to 6 mm
GNPCCP5001H	Microdent Genius hex.	Ø 5.00
GNECCESOUTT	Conical with flap abutment	Height 1 to 6 mm
GNPCCP5501H	Microdent Genius hex.	Ø 5.50
GNECCESSOTH	Conical with flap abutment	Height 1 to 6 mm
GNPCCP4501R	Microdent Genius Circular	
GNPCCP4501R	Conical with flap abutment	Height 1 to 6 mm
GNNPCCP5001R	Microdent Genius Circular	Ø 5.00
GNNPCCP500TR	Conical with flap abutment	Height 1 to 6 mm
GNPCCP5501R	Microdent Genius Circular	Ø 5.50
GNECCESSUIK	Conical with flap abutment	Height 1 to 6 mm

## Conical abutment without flap:

GNPCSP38H	Microdent Genius Hex. Conical	Ø 4.50
ON 001 3011	without flap abutment	Height 1 to 6 mm
GNPCSP43H	Microdent Genius Hex. Conical	Ø 5.00
GNPCSP43FI	without flap abutment	Height 1 to 6 mm
GNPCSP48H	Microdent Genius Hex. Conical	Ø 5.50
GINFCSP48FI	without flap abutment	Height 1 to 6 mm

# Immediate loading conical abutment:

GNPCI4501H	Microdent Genius hex. immediate loading conical abutment	Ø 4.50 Height 1 to 6 mm
GNPCI5001H	Microdent Genius Hex. Conical without flap abutment	Ø 5.00 Height 1 to 6 mm
GNPCI5501H	Microdent Genius Hex. Conical without flap abutment	Ø 5.50 Height 1 to 6 mm
GNPCI4501R	Microdent Genius circular immediate loading conical abutment	Ø 4.50 Height 1 to 6 mm
GNPCI5001R	Microdent Genius circular immediate loading conical abutment	Ø 5.00 Height 1 to 6 mm
GNPCI5501R	Microdent Genius circular immediate loading conical abutment	Ø 5.50 Height 1 to 6 mm

# Angled abutment:

GNPAE154501H  GNPAE204501H  GNPAE204501H  GNPAE254501H  GNPAE254501H  GNPAE254501H  GNPAE254501H  GNPAE254501H  GNPAE255001H  GNPAE255501H  Microdent Genius hex Aesthetic Angled Abutment 25°  GNPAE255501H  Angled Abutment 20°  GNPAE255501H  Microdent Genius hex Aesthetic Angled Abutment 25°  GNPAE255501H  Microdent Genius hex Angled Without flap Abutment 20°  GNPASP3815H  GNPASP3820H  Microdent Genius hex Angled Without flap Abutment 20°  GNPASP3825H  Microdent Genius hex Angled Without flap Abutment 20°  GNPASP4315H  Microdent Genius hex Angled Without flap Abutment 20°  GNPASP4320H  Microdent Genius hex Angled Without flap Abutment 20°  GNPASP4320H  Microdent Genius hex Angled Without flap Abutment 15°  GNPASP4320H  Microdent Genius hex Angled Without flap Abutment 15°  GNPASP4325H  Microdent Genius hex Angled Without flap Abutment 15°  GNPASP4326H  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 25°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 25°  Height 0 mm			
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Angled Abutment 20° Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 25° Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 15° Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 15° Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 20° Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 20° Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 25° Height 1 to 5 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 0 3.80 25° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm	CND4 E205004 H	Microdent Genius hex Aesthetic	Ø 5.00
GNPAE255001H  Angled Abutment 25°  GNPAE155501H  Microdent Genius hex Aesthetic Angled Abutment 15°  GNPAE205501H  Microdent Genius hex Aesthetic Angled Abutment 20°  Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 20°  Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 25°  Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 25°  Height 1 to 5 mm  Microdent Genius hex Angled Without flap Abutment 15°  GNPASP3815H  Microdent Genius hex Angled Without flap Abutment 20°  Microdent Genius hex Angled Without flap Abutment 20°  Microdent Genius hex Angled Without flap Abutment Ø 3.80 25°  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15°  Height 0 mm	GNPAEZUSUUTH	Angled Abutment 20°	Height 1 to 5 mm
Angled Abutment 25° Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 15° Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 20° Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 20° Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 25° Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 25° Height 1 to 5 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 03.80 25° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm	CNDA FOEEOGALI	Microdent Genius hex Aesthetic	Ø 5.00
GNPAE155501H  Angled Abutment 15°  Microdent Genius hex Aesthetic Angled Abutment 20°  Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 25°  Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 25°  Height 1 to 5 mm  Microdent Genius hex Angled Without flap Abutment 15°  GNPASP3815H  Microdent Genius hex Angled Without flap Abutment 20°  Microdent Genius hex Angled Without flap Abutment 20°  Microdent Genius hex Angled Without flap Abutment 20°  Microdent Genius hex Angled Without flap Abutment 03.80 25°  Microdent Genius hex Angled Without flap Abutment 15°  Microdent Genius hex Angled Without flap Abutment 15°  Microdent Genius hex Angled Without flap Abutment 15°  Microdent Genius hex Angled Without flap Abutment 20°  Microdent Genius hex Angled Without flap Abutment 20°  Microdent Genius hex Angled Without flap Abutment 15°  Microdent Genius hex Angled Without flap Abutment 20°  Microdent Genius hex A	GNPAE255001H	Angled Abutment 25°	Height 1 to 5 mm
Angled Abutment 15° Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 20° Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 25° Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 25° Height 1 to 5 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment Ø 3.80 25° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm	CND45155501H	Microdent Genius hex Aesthetic	Ø 5.50
GNPAE205501H  Angled Abutment 20°  Microdent Genius hex Aesthetic Angled Abutment 25°  Height 1 to 5 mm  Microdent Genius hex Angled Without flap Abutment 15°  GNPASP3815H  Microdent Genius hex Angled Without flap Abutment 20°  Microdent Genius hex Angled Without flap Abutment 20°  Microdent Genius hex Angled Without flap Abutment 20°  Microdent Genius hex Angled Without flap Abutment Ø 3.80 25°  Microdent Genius hex Angled Without flap Abutment 15°  Microdent Genius hex Angled Without flap Abutment 15°  Microdent Genius hex Angled Without flap Abutment 20°  Microdent Genius hex Angled Without flap Abutment 20°  Microdent Genius hex Angled Without flap Abutment 20°  Microdent Genius hex Angled Without flap Abutment 15°  Microdent Genius hex Angled Without flap Abutment 20°  Microdent Genius hex Angled	GNPAE 15550 III	Angled Abutment 15°	Height 1 to 5 mm
Angled Abutment 20° Height 1 to 5 mm  Microdent Genius hex Aesthetic Angled Abutment 25° Height 1 to 5 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment Ø 3.80 25° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm	CND4 E205504 H	Microdent Genius hex Aesthetic	Ø 5.50
GNPAE255501H  Angled Abutment 25°  Height 1 to 5 mm  Microdent Genius hex Angled without flap Abutment 15°  GNPASP3820H  Microdent Genius hex Angled without flap Abutment 20°  Height 0 mm  Microdent Genius hex Angled without flap Abutment 20°  Height 0 mm  Microdent Genius hex Angled without flap Abutment Ø 3.80 25°  Height 0 mm  Microdent Genius hex Angled without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled without flap Abutment 20°  Height 0 mm  Microdent Genius hex Angled without flap Abutment 20°  Height 0 mm  Microdent Genius hex Angled without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled without flap Abutment 15°  Microdent Genius hex Angled without flap Abutment 20°  Microdent Genius hex Angled without flap Abutment Ø 20°  Height 0 mm	GNPAEZUSSUTH	Angled Abutment 20°	Height 1 to 5 mm
Angled Abutment 25° Height 1 to 5 mm  Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled without flap Abutment Ø 3.80 25° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Ø4.3  Microdent Genius hex Angled Ø4.3  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Ø4.8  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment Ø 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment Ø 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment Ø 20° Height 0 mm	CNDA ESEEGAL	Microdent Genius hex Aesthetic	Ø 5.50
GNPASP3815H  without flap Abutment 15°  GNPASP3820H  Microdent Genius hex Angled without flap Abutment 20°  Microdent Genius hex Angled without flap Abutment 20°  Microdent Genius hex Angled without flap Abutment Ø 3.80 25°  Microdent Genius hex Angled without flap Abutment 15°  Microdent Genius hex Angled without flap Abutment 15°  Microdent Genius hex Angled without flap Abutment 20°  Microdent Genius hex Angled without flap Abutment 20°  Microdent Genius hex Angled without flap Abutment 15°  Microdent Genius hex Angled without flap Abutment 20°  Microdent Genius hex Angled	GNPAE255501H	Angled Abutment 25°	Height 1 to 5 mm
without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled without flap Abutment Ø 3.80 25° Height 0 mm  Microdent Genius hex Angled Ø4.3  Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Ø4.3  Microdent Genius hex Angled Ø4.8	CNDA SD204ELL	Microdent Genius hex Angled	Ø3.8
GNPASP3820H  without flap Abutment 20°  Microdent Genius hex Angled without flap Abutment Ø 3.80 25°  Height 0 mm  Microdent Genius hex Angled without flap Abutment Ø 3.80 25°  Height 0 mm  Microdent Genius hex Angled without flap Abutment 15°  Microdent Genius hex Angled without flap Abutment 20°  Microdent Genius hex Angled without flap Abutment 20°  Microdent Genius hex Angled without flap Abutment 15°  Microdent Genius hex Angled without flap Abutment 20°  Microdent Genius hex Angled	GNPASP3015H	without flap Abutment 15°	Height 0 mm
Microdent Genius hex Angled without flap Abutment Ø 3.80 25° Without flap Abutment Ø 3.80 25° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 20° Microdent Genius hex Angled without flap Abutment 20° Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Microdent Genius hex Angled without flap Abutment 15° Microdent Genius hex Angled without flap Abutment 15° Microdent Genius hex Angled without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Microdent Genius hex Angled	CNDASDSSSOL	Microdent Genius hex Angled	Ø3.8
Without flap Abutment Ø 3.80 25° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment Ø 20° Height 0 mm  Microdent Genius hex Angled Without flap Abutment Ø 20° Height 0 mm  Microdent Genius hex Angled Ø4.8  Microdent Genius hex Angled Ø4.8	GNFAGF302011	without flap Abutment 20°	Height 0 mm
without flap Abutment Ø 3.80 25° Height 0 mm  Microdent Genius hex Angled Ø4.3  Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Ø4.3  Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Ø4.3  Without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled Ø4.3  Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Ø4.8  Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Ø4.8  Without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled Ø4.8  Without flap Abutment Ø 20° Height 0 mm  Microdent Genius hex Angled Ø4.8  Without flap Abutment Ø 20° Height 0 mm  Microdent Genius hex Angled Ø4.8  Without flap Abutment Ø 20° Height 0 mm	CNDASD2025H	Microdent Genius hex Angled	Ø3.8
GNPASP4315H  without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled 20° Height 0 mm  Microdent Genius hex Angled 20° M4.8	GNFASF3023FI	without flap Abutment Ø 3.80 25°	Height 0 mm
without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 0 20° Height 0 mm  Microdent Genius hex Angled without flap Abutment 0 20° Height 0 mm  Microdent Genius hex Angled 0 04.8	CNDA SD424ELL	Microdent Genius hex Angled	Ø4.3
GNPASP4320H  without flap Abutment 20°  Microdent Genius hex Angled without flap Abutment 15°  GNPASP4815H  Microdent Genius hex Angled without flap Abutment 15°  Microdent Genius hex Angled without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled without flap Abutment 15°  Height 0 mm  Microdent Genius hex Angled without flap Abutment Ø 20°  Microdent Genius hex Angled W4.8  Height 0 mm  Microdent Genius hex Angled Ø4.8  Microdent Genius hex Angled Ø4.8	GNFASF4313F1	without flap Abutment 15°	Height 0 mm
without flap Abutment 20° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment Ø 20° Height 0 mm  Microdent Genius hex Angled W4.8  Microdent Genius hex Angled Ø4.8  Microdent Genius hex Angled Ø4.8  Microdent Genius hex Angled Ø4.8	CNDA SD4220H	Microdent Genius hex Angled	Ø4.3
GNPASP4325H without flap Abutment 15° Height 0 mm  GNPASP4815H Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  GNPASP4820H Microdent Genius hex Angled without flap Abutment Ø 20° Height 0 mm  GNPASP4825H Microdent Genius hex Angled Ø4.8  GNPASP4825H Ø4.8	GNFA3F432011	without flap Abutment 20°	Height 0 mm
without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled W4.8  GNPASP4820H  Microdent Genius hex Angled W4.8  Without flap Abutment Ø 20° Height 0 mm  Microdent Genius hex Angled Ø4.8  GNPASP4825H  Microdent Genius hex Angled Ø4.8	CNDA SDA325H	Microdent Genius hex Angled	Ø4.3
GNPASP4815H without flap Abutment 15° Height 0 mm  GNPASP4820H Microdent Genius hex Angled without flap Abutment Ø 20° Height 0 mm  Microdent Genius hex Angled Ø4.8  GNPASP4825H Microdent Genius hex Angled Ø4.8	GNFA3F4323F1	without flap Abutment 15°	Height 0 mm
without flap Abutment 15° Height 0 mm  Microdent Genius hex Angled without flap Abutment Ø 20° Height 0 mm  Microdent Genius hex Angled Ø4.8  GNPASP4825H  Microdent Genius hex Angled Ø4.8	GNDA SDA915U	Microdent Genius hex Angled	Ø4.8
GNPASP4820H without flap Abutment Ø 20° Height 0 mm  Microdent Genius hex Angled Ø4.8	GINI AGE 40 10F1	without flap Abutment 15°	Height 0 mm
without flap Abutment Ø 20° Height 0 mm  Microdent Genius hex Angled Ø4.8  GNPASP4825H	CNDA SD4020H	Microdent Genius hex Angled	Ø4.8
GNPASP4825H	GINFAGF4020F1	without flap Abutment Ø 20°	Height 0 mm
without flap Abutment 25° Height 0 mm	GNDASD4825H	Microdent Genius hex Angled	Ø4.8
	GINI AGE 4020FI	without flap Abutment 25°	Height 0 mm

# Mini Capitel abutment:

CNCADNI4904D	Microdent Genius Circular Mini	Ø 4.80
GNCAPN4801R	Capitel Abutment	Height 1 to 6 mm
GNCAPNA 174801H	Microdent Genius Hex Angled	Ø 4.80
GNCAFNA 174601FI	Mini Capitel abutment 17º	Height 1 to 2 mm
GNCAPNA 304801H	Microdent Genius Hex Angled	Ø 4.80
GNCAFNA 304601FI	Mini Capitel abutment 30°	Height 1 to 2 mm
UTSNPC4X	Microdent Genius Mini Capitel	Ø 4.80
UTSINFC4X	cementable coping	Ø 4.60
UTSNCP4X	Microdent Genius Mini Capitel	Ø 4.80
UTSNCP4X	Protective Cap	Ø 4.60

- A Cover screw protects the inner configuration of the implant and supplied sterile with the implant.
- Healing abutment to shape the soft tissue during the healing phase.

GNPR4501	Microdent Genius Healing	Ø 4.50
	abutment	Height 1 to 6 mm
GNPR5001	Microdent Genius Healing	Ø 5.00
GNERSOOT	abutment	Height 1 to 6 mm
GNPR5501	Microdent Genius Healing	Ø 5.50
GNEKSSOT	abutment	Height 1 to 6 mm
GNPCR3501	Microdent Genius Healing	Ø 3.50
GNPCR3501	abutment	Height 1 to 6 mm

• The Retention Screws are used for securing the abutments to the implant.

Overdenture retention consists of a titanium alloy socket that attached to a
threaded post for use with titanium endosseous implants having an internal
threaded socket. Both devices have a plastic component that has a shape on one
and that mate into the titanium socket, while the other end with metal cap is
attached to the denture.

GNEOSS3500	Microdent Genius Osscilia	Ø 3.50
GNEOSSSSSS	retention abutment	Height 0 to 6 mm
CSUTGOSS	Metal cap with soft, middle	Titanium grade 5
CSUIGOSS	and strong Osscilia retainer.	+POM

All abutments include appropriate features and dimensions to mate with Microdent Genius implants.

#### E. Intended Use

Microdent Genius Implant System is indicated for surgical placement in the upper or lower jaw arches, for single-stage or two-stage surgical procedures and cemented, screw retained restorations or overdentures. Microdent Genius Implant System is intended for immediate placement and function on single tooth and/or multiple tooth applications when good primary stability is achieved, with appropriate occlusal loading, in order to restore chewing function.

Small diameter implants are indicated only for replacement of central and lateral incisors in the maxillar and mandible.

### F. Summary of Testing and Comparison to the Predicate Device

The devices are designed and manufactured in accordance with the following standards:

ISO 5832-2:1999 Implants for surgery - Metallic materials - Part 2: Unalloyed titanium ISO 5832-3:1996 Implants for surgery -- Metallic materials -- Part 3: Wrought titanium 6-aluminium 4-vanadium alloy

ISO 14971 Second edition 2007-03-01 Medical devices - Application of risk management to medical devices

ISO 14801 Second edition 2007-11-15 Dentistry-Implants-Dynamic fatigue test for endosseous dental implants

ISO 10993-1:2009 Biological evaluation of medical devices -- Part 1: Evaluation and testing within a risk management process

ISO 10993-5:2009 Biological evaluation of medical devices -- Part 5: Tests for In Vitro cytotoxicity

USP 37<sup>th</sup> ed. 2014<85> Bacterial Endotoxins Test

USP 37<sup>th</sup> ed. 2014<151> Pyrogen Test

ISO 14698-1:2003 Cleanrooms and Associated Controlled Environments - Biocontamination Control - Part 1: General Principles and Methods

ISO 14644-1:1999 Cleanrooms and Associated Controlled Environments - Part 1: Classification of Air Cleanliness

ISO 14644-3:2005 Cleanrooms and associated controlled environments - Part 3: Test methods

ISO 11737-1:2006 (R)2011 Sterilization of medical devices - Microbiological methods

Part 1: Determination of the population of microorganisms on product, 2ed

ISO 11737-2:2009 Sterilization of medical devices -- Microbiological methods --

Part 2: Tests of sterility performed in the definition, validation and maintenance of a sterilization process

ISO 11607-1:2006/(R)2010 Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging systems

ISO 11607-2:2006/(R)2010 Packaging for terminally sterilized medical devices - Part 2: Validation requirements for forming, sealing and assembly processes

ISO 11137-1:2006/(R) 2010 Sterilization of health care products - Radiation - Part 1: Requirements for development, validation, and routine control of a sterilization process for medical devices

ISO 11137-2:2012 Sterilization of health care products - Radiation - Part 2: Establishing the sterilization dose

ISO 11137-3:2006/(R)2010 Sterilization of health care products - Radiation - Part 3: Guidance on dosimetric aspects.

ASTM F1980-07 (Reapproved 2011), Standard Guide For Accelerated Aging Of Sterile Barrier Systems For Medical Devices. (Sterility).

ANSI / AAMI ST79: 2010& A1:2010 & A2:2011 & A3:2012 & A4:2013 Comprehensive guide to steam sterilization and sterility assurance in health care facilities

#### **Comparison of Technological Characteristics**

Table 1: General Implant Device Comparison

Characteristic	Subject Device	Predicate Device	SE / Comments
Device Name	Microdent Genius	ANKYLOS C/X	yes
	implant	Implant	
• 510K	NA	K083805	
<ul> <li>intended use/</li> </ul>			
indications for use	Microdent Genius Implant	The ANKYLOS® C/X	
	System is indicated for	Implant System is for	Yes (Genius
	surgical placement in the	single-stage or two-stage	Microdent
	upper or lower jaw arches,	surgical procedures and	specified the use

	for single-stage or	cemented or screw	of small diameter
	two-stage surgical	retained restorations. The	implants)
	procedures and cemented,	ANKYLOS® C/X	1 /
	screw retained restorations	Implant System is intended	
	or overdentures. Microdent	for immediate placement	
	Genius Implant System is	and function on single tooth	
	intended for immediate	and/or multiple tooth	
	placement and function on	applications when good	
	single tooth and/or multiple	primary stability is	
	tooth applications when	achieved, with appropriate	
	good primary stability is	occlusal loading, in order to	
	achieved, with appropriate	restore chewing function.	
	occlusal loading, in order to	Multiple tooth applications	
	restore chewing function.	may be splinted with a bar.	
	Small diameter implants are		
	indicated only for		
	replacement of central and		
	lateral incisors in the		
	maxillar and mandible.		
• material	Comercially pure	Comercially pure	Yes (different
	titanium (grade	titanium (grade 2	degree but with
	4 as ISO 5832-2)	as ISO 5832-2)	very similar
			properties)
<ul> <li>design;</li> </ul>	Parallel-walled	Same	yes
	and threaded.		
	0 3,50	< ○ →	
	36		
	38	3	
	0.10.15.11.15	0.05.46.44	
• length (mm)	8, 10, 12, 14, 16	8, 9.5, 11, 14 and	yes
12	and 18 mm.	17 mm	<b>X</b> 7
• diameter (mm)	Diameter ranges:	Diameter ranges:	Yes (ANKYLOS
	3.5 mm, 4.0 mm,	3.5 mm, 4.5 mm,	also has a
	4.5 mm and 5.00	5.5 mm and 7.0	diameter of 7.0
	mm.	mm.	mm)
<ul> <li>connection type</li> </ul>	Internal	Internal	yes
	connection	connection	
İ			
	tapered with indexation.	tapered with indexation.	

surface treatment	Blasting (roughness 0,82 µm peak-to-valley).	Grit-blasted sand high-temperature etched (roughness 2,75 µm peak-to-valley).	yes (different treatment with similar result)
• sterilization	Sterile (Gamma irradiation)	same	yes
Packaging	Packaged with sterile vial with cover screw	Packaged with sterile blister with cover screw	yes
Shelf Life	5 years	5 years	yes
Mating     Components	All Microdent Restorative Components	All ANKYLOS C/X Restorative Components	yes

Table 2: General Prosthetic Device Comparison

Characteristic	Subject Device	Predicate Device	SE / Comments
Device Name	Microdent Genius implant	ANKYLOS C/X	yes
	abutments	Implant abutments	
• 510K	NA	K083805	
<ul> <li>intended use/</li> </ul>			
indications for use	Microdent Genius Implant System is	The ANKYLOS® C/X Implant	
	indicated for surgical placement in the	System is for single-stage or	Yes (Genius
	upper or lower jaw arches, for single-stage	two-stage surgical procedures	Microdent
	or two-stage surgical procedures and	and cemented or screw	specified the use
	cemented, screw retained restorations or	retained restorations. The	of small
	overdentures. Microdent Genius Implant	ANKYLOS® C/X	diameter
	System is intended for immediate	Implant System is intended for	implants
	placement and function on single tooth	immediate placement and	
	and/or multiple tooth applications when	function on single tooth and/or	
	good primary stability is achieved, with	multiple tooth applications	
	appropriate occlusal loading, in order to	when good primary stability is	
	restore chewing function.	achieved, with appropriate	
	Small diameter implants are indicated only	occlusal loading, in order to	
	for replacement of central and lateral	restore chewing function.	

	I			
		incisors in the maxillar and mandible.	Multiple tooth applications may be splinted with a bar.	
• ma	terial	Titanium alloy (Grade 5).	same	yes
• sur	face treatment	Polished.	same	yes
• ster	rilization	No sterile	same	yes
• Pac	ckaging	Blister	same	yes
• De	vice Name	Microdent Genius Cover Screw	ANKYLOS Cover Screw	yes
• 510	)K	NA	K083805	
	ended use/ lications for use	Microdent Genius Implant System is indicated for surgical placement in the upper or lower jaw arches, for single-stage or two-stage surgical procedures and cemented, screw retained restorations or overdentures. Microdent Genius Implant System is intended for immediate placement and function on single tooth and/or multiple tooth applications when good primary stability is achieved, with appropriate occlusal loading, in order to restore chewing function.  Small diameter implants are indicated only for replacement of central and lateral incisors in the maxillar and mandible.	The ANKYLOS® C/X Implant System is for single-stage or two-stage surgical procedures and cemented or screw retained restorations. The ANKYLOS® C/X Implant System is intended for immediate placement and function on single tooth and/or multiple tooth applications when good primary stability is achieved, with appropriate occlusal loading, in order to restore chewing function. Multiple tooth applications may be splinted with a bar.	Yes (Genius Microdent specified the use of small diameter implants
• des	sign;	One diameter and metric thread M1.8	One diameter and metric thread M1.8	yes
	llar Height (mm, n -max)	Without heights	Without heights	yes
• Sea (mi	ating Surface m)	Diameter 2.9 mm.	Diameter 2.48 mm.	yes
• con	nnection type	Internal connection tapered.	Internal connection tapered.	yes
• stei	rilization	Sterile (Gamma irradiation)	same	Yes.
				Packaged sterile with the implant

Device Name	Microdent Genius Healing Abutment	Ankylos Regular C/X Gingiva Former	yes
• 510K	NA	K083805	
intended use/ indications for use	Microdent Genius Implant System is indicated for surgical placement in the upper or lower jaw arches, for single-stage or two-stage surgical procedures and cemented, screw retained restorations or overdentures. Microdent Genius Implant System is intended for immediate placement and function on single tooth and/or multiple tooth applications when good primary stability is achieved, with appropriate occlusal loading, in order to restore chewing function.  Small diameter implants are indicated only for replacement of central and lateral incisors in the maxillar and mandible.	The ANKYLOS® C/X Implant System is for single-stage or two-stage surgical procedures and cemented or screw retained restorations. The ANKYLOS® C/X Implant System is intended for immediate placement and function on single tooth and/or multiple tooth applications when good primary stability is achieved, with appropriate occlusal loading, in order to restore chewing function. Multiple tooth applications may be splinted with a bar.	Yes (Genius Microdent specified the use of small diameter implants
• design;	3 diameters and metric thread M1.8	One diameter and metric thread M1.8	yes
• Collar Height (mm, min -max)	1 mm to 6 mm	0.75, 1.5, 3 and 4,5 mm	yes
Seating Surface (mm)	Diameter from 4.5, 5 and 5.5 mm.	Diameter 5.5 mm.	yes
connection type	Internal connection tapered.	Internal connection tapered with indexation (/X) or only tapered (C/)	yes
Device Name	Microdent Genius Retention screw	Ankylos Fixation screw	yes
• 510K	NA	K083805	
intended use/ indications for use	Microdent Genius Implant System is indicated for surgical placement in the upper or lower jaw arches, for single-stage or two-stage surgical procedures and cemented, screw retained restorations or overdentures. Microdent Genius Implant	The ANKYLOS® C/X Implant System is for single-stage or two-stage surgical procedures and cemented or screw retained restorations. The ANKYLOS® C/X	Yes (Genius Microdent specified the use of small diameter implants

• design;	System is intended for immediate placement and function on single tooth and/or multiple tooth applications when good primary stability is achieved, with appropriate occlusal loading, in order to restore chewing function.  Small diameter implants are indicated only for replacement of central and lateral incisors in the maxillar and mandible.  This screw having a	Implant System is intended for immediate placement and function on single tooth and/or multiple tooth applications when good primary stability is achieved, with appropriate occlusal loading, in order to restore chewing function.  Multiple tooth applications may be splinted with a bar.  Similar geometry	yes
, ,	threaded fuse and a head with a hexagon 1.20 mm flat to flat.	with hexagon 1.00 mm.	
Seating Surface (mm)	This is a single Retention screw for all platforms	same	yes
Device Name	Microdent Genius Conical abutment	Ankylos Regular C/X abutment and Ankylos SynCone C/	yes
• 510K	NA	K083805 K041509	
intended use/ indications for use	Microdent Genius Implant System is indicated for surgical placement in the upper or lower jaw arches, for single-stage or two-stage surgical procedures and cemented, screw retained restorations or overdentures. Microdent Genius Implant System is intended for immediate placement and function on single tooth and/or multiple tooth applications when good primary stability is achieved, with appropriate occlusal loading, in order to	The ANKYLOS® C/X Implant System is for single-stage or two-stage surgical procedures and cemented or screw retained restorations. The ANKYLOS® C/X Implant System is intended for immediate placement and function on single tooth and/or multiple tooth applications when good primary stability is	Yes (Genius Microdent specified the use of small diameter implants
	restore chewing function.  Small diameter implants are indicated only for replacement of central and lateral incisors in the maxillar and mandible.	achieved, with appropriate occlusal loading, in order to restore chewing function.  Multiple tooth applications may be splinted with a bar.	
• design;	Small diameter implants are indicated only for replacement of central and lateral	occlusal loading, in order to restore chewing function.  Multiple tooth applications may	yes

	min -max)		mm	
•	Seating Surface (mm)	Diameter from 4.5, 5 and 5.5 mm.	Diameter 5.5 mm.	yes
•	connection type	Internal connection tapered with indexation (H) or only tapered (C).	Internal connection tapered with indexation (/X) or only tapered (C/)	yes
•	Device Name	Microdent Genius Angled abutment	Ankylos Regular C/X abutment	yes
•	510K	NA	K083805	
•	intended use/ indications for use	Microdent Genius Implant System is indicated for surgical placement in the upper or lower jaw arches, for single-stage or two-stage surgical procedures and cemented, screw retained restorations or overdentures. Microdent Genius Implant System is intended for immediate placement and function on single tooth and/or multiple tooth applications when good primary stability is achieved, with appropriate occlusal loading, in order to restore chewing function.  Small diameter implants are indicated only for replacement of central and lateral incisors in the maxillar and mandible.	The ANKYLOS® C/X Implant System is for single-stage or two-stage surgical procedures and cemented or screw retained restorations. The ANKYLOS® C/X Implant System is intended for immediate placement and function on single tooth and/or multiple tooth applications when good primary stability is achieved, with appropriate occlusal loading, in order to restore chewing function. Multiple tooth applications may be splinted with a bar.	Yes (Genius Microdent specified the use of small diameter implants
•	design;	3 diameters and same connection (Microdent Genius).  3 angulations 15°, 20° and 25°.  With flap (aesthetics) and without flap.	One diameter and Ankylos connection.	Yes  Without flap provides shoulder prosthesis occultation in cases of low gingiva.
•	Collar Height (mm, min -max)	1 mm to 5 mm	0.75, 1.5, 3 and 4,5 mm	yes

•	Seating Surface (mm)	Diameter from 4.5, 5 and 5.5 mm.	Diameter 5.5 mm.	yes
•	connection type	Internal connection tapered with indexation (H).	Internal connection tapered with indexation (/X) or only tapered (C/).	yes
•	Device Name	Microdent Genius Mini Capitel abutment	Ankylos Balance Base abutment C/	yes
•	510K	NA	K041509	
•	intended use/indications for use	Microdent Genius Implant System is indicated for surgical placement in the upper or lower jaw arches, for single-stage or two-stage surgical procedures and cemented, screw retained restorations or overdentures. Microdent Genius Implant System is intended for immediate placement and function on single tooth and/or multiple tooth applications when good primary stability is achieved, with appropriate occlusal loading, in order to restore chewing function.  Small diameter implants are indicated only for replacement of central and lateral incisors in the maxillar and mandible.	An endosseous dental implant is indicated for surgical placement in the upper and lower jaw arches, to provide a root form means for single or multiple unit prosthetic appliance attachment to restore a patient's chewing function. Implants can be placed with a conventional 2 stage surgical process with an option for transmucosal healing or they can be placed in a single stage surgical process for immediate loading. Immediate loading is restricted to the anterior mandible, based on 4 interforminal placed implants, and not indicated for single, unsplinted implants. Patients must be subject for dental treatment with endosseous implants.	Yes (Genius Microdent specified the use of small diameter implants.  Ankylos Balance Base restricted the immediate loading to the anterior mandible, based 4 interforminal placed implants.
•	design;	One prosthetic diameter of 4,8 mm.  Angulations of 17° and 30°.	One prosthetic diameter of 4,2 mm.  Angulations of 15° and 30°.	yes
•	Collar Height (mm, min -max)	1 mm to 6 mm	0.75, 1.5, 3 and 4,5 mm	yes

• Seating Surface (mm)	Diameter	Diameter	yes
(11111)	4.8 mm.	4.2 mm.	
connection type	Internal connection tapered (C).	Internal connection tapered (C/)	yes
• Copings	Cementable coping of Titanium (Grade 5)	Two cementable coping of Gold alloy.	yes
Device Name	Microdent Genius Osscilia retention abutment	XiVE Ball and Socket Abutment  Ankylos Snap abutment C/.	yes
• 510K	NA	K021318 K083805	
• intended use/indications for use	Microdent Genius Implant System is indicated for surgical placement in the upper or lower jaw arches, for single-stage or two-stage surgical procedures and cemented, screw retained restorations or overdentures. Microdent Genius Implant System is intended for immediate placement and function on single tooth and/or multiple tooth applications when good primary stability is achieved, with appropriate occlusal loading, in order to restore chewing function.  Small diameter implants are indicated only for replacement of central and lateral incisors in the maxillar and mandible.	The XiVE@ Dental Implant System is indicated as follows: once the implant has osseointegrated, it serves to support single tooth, bridge and overdenture restorations. In the edentulous mandible, a minimum of four XiVE dental implants (>9.5mm length) are placed between the mental foramina and rigidly splinted together. In this case, bar-prosthetic loading is possible immediately after implant placement.  The ANKYLOS® C/X Implant System is for single-stage or two-stage surgical procedures and cemented or screw retained restorations. The ANKYLOS® C/X Implant System is intended for immediate placement and function on single tooth and/or multiple tooth applications when good primary stability is achieved, with appropriate	Yes (but Genius Microdent specified the use of small diameter implants. The use of XiVE@ Dental Implant System in mandible restricted a minimum of four XiVE dental implants (>9.5mm length) are placed between the mental foramina).

• design;	One prosthetic diameter of 3.5 mm.	occlusal loading, in order to restore chewing function.  Multiple tooth applications may be splinted with a bar.  One prosthetic diameter of 3.1	Yes
	Compensation 17°.	mm. Compensation 20°.	XiVE Abutment consists of two parts, one which has the geometry of the implant
			connection and over the axis of the abutment. This characteristic differs from Genius and
			Ankylos but isn't relevant.
Collar Height (mm, min -max)	1 mm to 6 mm	1.5, 3 and 4,5 mm	yes
Seating Surface (mm)	Diameter 3.5 mm.	Diameter 3.1 mm.	yes
connection type	Internal connection tapered (C).	Internal connection tapered (C/)	yes

Microdent Genius Implant System is substantially equivalent intended use as the identified predicates. Microdent Genius Implant System is similar in fundamental scientific technology to the predicate devices in that they all have been designed, manufactured and tested in compliance with FDA'S Class II special controls guidance document: Root-form Endosseous Dental Implants and Endosseous Dental Implant Abutments.

Microdent Genius Implant System is substantially equivalent in materials, indications and intended use, packaging, labeling and performance to the predicate devices currently marketed in the U.S.

The only differences the subject device and the predicate are slight differences in design and dimensions.

## Non-Clinical performance tests

The proposed devices have been subject to bench testing to determine fulfillment of design and performance requirements. Bench testing followed the recommendations provided in FDA Guidance Document – Class II Special Controls Guidance Document for Endosseous Dental

Implants and Endosseous Dental Implant Abutments and included static and dynamic fatigue testing in accordance with ISO 14801. Biocompatibility testing has been performed and ESEM/EDS analyses to determine adequate surface finish and cleaning. Package integrity testing and sterilization validation have been performed.

## **G.** Clinical Testing

No clinical testing was performed. Non-clinical testing was used to support the decision of substantial equivalent.

## H. Conclusion of Substantial Equivalence

Based on the similarities observed and results of non-clinical testing performed, we conclude that the proposed devices are substantially equivalent to the predicate devices.